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ORNEY DOCKET NO.	ATT	D INVENTOR	FIRST NAM		FILING DATE	APPLICATION NO.
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No 09/158,982 Applicant(s)

Mullins et al.

Examiner

Ardin Marschel

Group Art Unit 1655

Re	esponsive to communication(s) filed on
Th	nis action is FINAL .
Sir in a	nce this application is in condition for allowance except for formal matters. prosecution as to the merits is closed accordance with the practice under <i>Ex parte Quay</i> 835 C D 11, 453 O G 213
ionger applic	rtened statutory period for response to this action is set to expire3 month(s), or thirty days, whichever is refrom the mailing date of this communication. Failure to respond within the period for response will cause the sation to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of FR 1.136(a).
Dispo	osition of Claim
Х	is/are pending in the applicat
	Of the above, claim(s) is/are withdrawn from consideratio
	Claim(s)is/are allowed
Х	Claim(s) 1-7 and 10-23 is/are rejected
	Claim(s) 8 and 9 is/are objected to
	claims are subject to restriction or election requiremen
	The proposed drawing correction, filed on
	received in Application No. (Series Code/Serial Number)
	received in this national stage application from the International Bureau (PCT Rule 17 2(a))
	*Certified copies not received
	Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e)
	Notice of References Cited, PTO-892 Information Disclosure Statement(s), PTO-1449. (1 sheet) Interview Summary, PTO-413 Notice of Draftsperson's Patent Drawing Review, PTO-948 Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

- 2 - Art Whit: 1700 Jerial Nr. 19/158,982 The art unit designated for this application has changed. Applicantis' are hereby informed that future correspondence should be directed to Art Unit 1655. Claims 10 and 23 are rejected, as discussed below, under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 10 contains a limitations directed to "READS" which causes the claim to be vague and indefinite because no definition. of what is meant thereby has been found in the instant specification. It is noted that page 27, lines 8-10, discusses a READS primer without stating what it is. Claim 23 confusingly depends from itself. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this shotion made in this Office action: A person shall be entitled to a patent unless -was the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent. Claims 1-7 are rejected under 35 V.S.C. \$ 102.40 as being clearly anticipated by Lockmart et al. Ref. As . Lookhart of Al. measures dene expression regarding the usable or mRNAs will array hybridization as summarized in the abstract. The hybridization to each probe on the array is quantified Via a

scanning confidual microscope as described on page 1676, second column, last paragraph, and on page 1679, "Experimental Protocol", first three paragraphs therein. The result of the scan is shown as an image in Figure 2, part A, for example. It is noted that computer analysis and related computer files of the position and intensity of hybridization is disclosed on page 1879, section entitled "Quantitative analysis of hybridization" patterns and intensities" which anticipates part (b) of instant claim 1 which is multi-dimensional as containing data for the below described displays which contain at least two dimensions, but may be deemed to contain three dimensions as the intensity is similar to 3-D pictures but flatly displayed. Thus, the hybridization to separate probes are characteristics of the sample that meet parts (a), (1) and (ii), of instant claim . a multitude of times. The quantitation of hybridization is a measure of the quantity of polynagleotide as required in instant glaim 1, part las, lins. Figures 2 and 3 on pages 1070 and 1875, respectively, anticipate the display required in instant claim 1, part (c). It is noted that probe hybridization both nive data as a measure of complementarity as well as size instant claim 3) as determined by the probe size. SDNA intermediate production is shown as part of the procedure in Figure 1 on page 1000 which includes the cINA characterination. deemed to be claimed in instant claims 5 and 6 which clearly

- 4 - Art Milit: 1748 3-rial No. - 98156,982 on the above disclosures if the reference clearly anticipate instant claims 1-4. The following is a quotation of 35 U.S.C. § 1999a. Which t rms the basis for all obviousness rejections set forth in this Office action: (a) A patent may not be obtained though the invention is meidentically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 18 \pm , the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point but the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in or ier for the examiner to consider the applicability of 35 U.S.C. 103 column and rotential 35 U.S.C. § $102 \, (\mathrm{f})$ or (g) prior art unies 35 Claims 11-13 are rejected under 35 U.S.C. § 114 a. as leing n.patentable over Lorchart et al. Ref. Adr. On page 1878, Lockhart et al. performs a time point experiment wherein the array results are compared in order to thain time point data for Totell induction. This motivates and grangers the extremely well known mathematical perations in o mogrison between prefiles at various times such as subtract the or co-ordinate display in order to compare the various time point

Art This: 1055 Carial M . 3/158,982 _ = = -1.811.73. Thus, it would have been obvious to someone of reithary skill in the art at the time of the instant invention to gradite the instant invention because Lockhart et al. suggests and motivates comparisons between gene expression time points for T cell induction which is deemed to suggest and motivate such extremely well known comparison calculations such as subtraction. of comparable profiles etc. as instantly claimed. The disclosure is objected to because of the following informalities: In the specification on pages 9-10 Figures 1-11 are briefly described but confusingly no Figures were filed with this application. Appropriate correction is required. Claims 8 and 9 are objected to as being dependent upon a possibly base disim, but would be allowable if rewritteh in independent form including all of the limitations of the base elaim and any intervening claims. No claim is allowed. Papers related to this application may be submitted to them. by facsimple transmission. Fapers should be faxed to droup via the ETV Fax Jenter located in Grystal Mall 1. faxing of such papers must conform with the notices published in The ifficial papette, 1 % 03 % .November 18, 1944 , 115 \times 4 % November 18, 1944 , 115 \times 4 % November 18, 1944 , 166 \times 5 % November 18, 1944 , 166 \times 5 % November 18, 1944 , 166 \times 5 % November 18, 1944 , 166 \times 6 % November 18, 1944 , 166 \times 7 41.42 3 3 5-3 14.

Art Thit: 1/8% Derial No. 00/186,962 - v² -Any inquiry synderming this symmunitation of earlier communications from the examiner should be directed to Ariin Marschel, Fh.B., whose telephone number is 3000 100-3094. The examiner can normally be reached on Monday-Friday from A.M. · I F.M If attempts to reach the examiner by telephone are insubbessful, the examiner's supervisor, W. Gary Jones, can be reached on (703) 308-1152. Any inquiry of a general nature or relating to the status to this application should be directed to the Chemical Matrix receptionist whose telephone number is (703: 300 0100. Tecember 13, 1999 ARDIN H. MARSCHEL PRIMARY EXAMINER